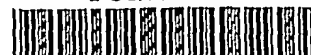


**Translation**

**Rec'd PCT/PTO 17 DEC 2003**

PCT/JP2003/007675

**PATENT COOPERATION TREATY**



# PCT

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference <b>JAM-A2002045</b>	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. <b>PCT/JP2003/007675</b>	International filing date (day/month/year) <b>17 June 2003 (17.06.2003)</b>	Priority date (day/month/year) <b>18 June 2002 (18.06.2002)</b>
International Patent Classification (IPC) or national classification and IPC <b>B30B 15/14, 1/26</b>		
Applicant <b>AMADA COMPANY, LIMITED</b>		

<p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>4</u> sheets, including this cover sheet.</p> <p><input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of _____ sheets.</p>	
<p>3. This report contains indications relating to the following items:</p> <p>I <input checked="" type="checkbox"/> Basis of the report</p> <p>II <input type="checkbox"/> Priority</p> <p>III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p>IV <input type="checkbox"/> Lack of unity of invention</p> <p>V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p>VI <input type="checkbox"/> Certain documents cited</p> <p>VII <input type="checkbox"/> Certain defects in the international application</p> <p>VIII <input type="checkbox"/> Certain observations on the international application</p>	

Date of submission of the demand <b>25 December 2003 (25.12.2003)</b>	Date of completion of this report <b>14 October 2004 (14.10.2004)</b>
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP2003/007675

## I. Basis of the report

## 1. With regard to the elements of the international application:\*

- ☒ the international application as originally filed
- ☐ the description:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the claims:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, as amended (together with any statement under Article 19  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the drawings:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the sequence listing part of the description:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

## 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

## 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets/fig \_\_\_\_\_

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International Application No.  
PCT/JP 03/07675

## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

### 1. Statement

Novelty (N)	Claims	4-6, 8, 10-18	YES
	Claims	1-3, 7, 9	NO
Inventive step (IS)	Claims		YES
	Claims	1-18	NO
Industrial applicability (IA)	Claims	1-18	YES
	Claims		NO

### 2. Citations and explanations

- Document 1: JP 2001-62596 A (NS Engineering Corporation, Amada Co., Ltd., Kabushiki Kaisha Sogo Anzen Gijutsu Center), 13 March 2001
- Document 2: JP 2000-288792 A (Amada Co., Ltd.), 17 October 2000
- Document 3: JP 8-215896 A (Tamagawa Machinery K.K.), 27 August 1996
- Document 4: JP 10-327548 A (Electric Boat Corporation), 8 December 1998
- Document 5: JP 2001-62591 A (Amada Co., Ltd., NS Engineering Corporation, Kabushiki Kaisha Sogo Anzen Gijutsu Center), 13 March 2001
- Document 6: JP 54-105716 A (Hitachi, Ltd.), 20 August 1979
- Document 7: JP 2001-276467 A (Sharp Corporation), 9 October 2001

The invention set forth in claims 1 to 3, 7 and 9 lacks novelty and does not involve an inventive step in the light of document 1 (paragraphs [0040] to [0079]; fig. 1 to 11) or document 2 (paragraphs [0038] to [0070]; fig. 1 to 4).

The invention set forth in claims 4, 8 and 10 does not involve an inventive step in the light of documents 1

and 2 and document 3. It would not be difficult for a person skilled in the art to apply the eccentric shaft described in document 3 (paragraphs [0032], [0042] and fig. 1) to the system described in documents 1 and 2.

The invention set forth in claims 5 and 6 does not involve an inventive step in the light of documents 1 to 3 and document 4. It would not be difficult for a person skilled in the art to mount a magnet as described in document 4 (paragraph [0045]; fig. 1 and 2) to the shaft set forth in documents 1 and 2. A bush is known as a fixing means.

The invention set forth in claims 11 to 13 and 14 to 16 does not involve an inventive step in the light of documents 1 to 3 and 5. It would not be difficult for a person skilled in the art to rotate the operating shaft described in documents 1 or 2 reciprocatingly within a predetermined range of angles, as described in document 5 (paragraphs [0088] to [0104], [0109]; fig. 8 to 10).

The invention set forth in claims 17 and 18 does not involve an inventive step in the light of documents 1 and 2 and documents 6 and 7. It would not be difficult for a person skilled in the art to apply the reactor described in document 6 (page 1, right column, lines 5 to 17; fig. 1 and 4) and the capacitor set forth in document 7 (fig. 3) to the system described in documents 1 and 2.